BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:Providing new Borewells and CC Roads, Drains developments in Rachenahalli and other adjusted layout

MEASUREMENT SHEET

FIRST AND PART BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.	Amount in RS.	Remarks
1		Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ It No 19.1/ PWD SR 2018-19									
			cum								
		Vide Total executed Quantity from premeasuremet Page no. 1						**461.62**			
		Total						**461.62**			
		Tender Quantity						**882.29**			
		Now to be Paid Quantity						**461.62**	**207.60**	**95831.64**	
2		KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Item No 4.2. P 13 / PWD SR 2018-19									
			cum								
		Vide Total executed Quantity from premeasuremet Page no. 2						**59.66**			
		Total						**59.66**			
		Tender Quantity						**90.71**			
		Now to be Paid Quantity						**59.66**	**5505.64**	**328492.63**	
3		Providing laying palin / reinforced cement concrete for side drains using M20 nominal mix conrete with OPC at 300 kgs, with 20 mm and down size granite metal coarse aggregates at 0.69 cumand fine aggregates at 0.43 cum machine mixed, wall coumpound for walls and bottom including centering shuttering cost of materilas HOM of macinery, curing etc., complete excluding cost of steel as per MORTH specification No 1500, 1700, 2200, including cost of materials labours, HOM complete as per specifications -d0- wall and bottom thickness 15 cms (PWD SR 2018-19 P 271 it 37.59.1)									
Measurements taken on		26-05-2020									
		for Drain bottom									
		L/s									
0	30		cum	1	30.00	0.95	0.15	4.28			
30	60		cum	1	30.00	0.95	0.15	4.28			
60	87.50		cum	1	27.50	0.95	0.15	3.92			
		RHS									
0	30		cum	1	30.00	0.95	0.15	4.28			
30	60		cum	1	30.00	0.95	0.15	4.28			
60	90		cum	1	30.00	0.95	0.15	4.28			
90	120		cum	1	30.00	0.95	0.15	4.28			
120	150		cum	1	30.00	0.95	0.15	4.28			
150	165.60		cum	1	15.60	0.95	0.15	2.22			
		LHS									
0	30		cum	1	30.00	0.95	0.15	4.28			
30	60		cum	1	30.00	0.95	0.15	4.28			
60	90		cum	1	30.00	0.95	0.15	4.28			
90	120		cum	1	30.00	0.95	0.15	4.28			
120	150		cum	1	30.00	0.95	0.15	4.28			
150	165.60		cum	1	15.60	0.95	0.15	2.22			
		For Drain side wall									
		L/s									
0	30		cum	2	30.00	0.15	0.65	5.85			
30	60		cum	2	30.00	0.15	0.65	5.85			
60	87.50		cum	2	27.50	0.15	0.65	5.36			
		RHS									
0	30		cum	2	30.00	0.15	0.65	5.85			
30	60		cum	2	30.00	0.15	0.65	5.85			

88.48

CB FC 26/5/2020

CB FC

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor

PRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant exicutive Engineer

52.88

60	90		cum	2	30.00	0.15	0.65	5.85			
90	120		cum	2	30.00	0.15	0.65	5.85			
120	150		cum	2	30.00	0.15	0.65	5.85			
150	165.60		cum	2	15.60	0.15	0.65	3.04			
		LHS									
0	30		cum	2	30.00	0.15	0.65	5.85			
30	60		cum	2	30.00	0.15	0.65	5.85			
60	90		cum	2	30.00	0.15	0.65	5.85			
90	120		cum	2	30.00	0.15	0.65	5.85			
120	150		cum	2	30.00	0.15	0.65	5.85			
150	165.60		cum	2	15.60	0.15	0.65	3.04			
							Total	**141.31**			
							Tender Quantity	**224.62**			
							Now to be Paid Quantity	**141.31**	**7070.20**	**999098.80**	

4	KSRRB M2200-6. Providing T.M.T Reinforcement for R.C.C work including Straighting, cutting bending hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherver necessary complete
Measurements taken on	26-05-2020

			Tonne								
		Vide Total executed Quantity from premeasuremet Page no. 03						**5.84**			
							Total	**5.84**			
							Tender Quantity	**14.11**			
							Now to be Paid Quantity	**5.84**	**72326.98**	**422186.61**	

5	Providing and fixing RCC precast slab made out of CC 1:2:4 with 10 cm thick and Finishing utting including form work curing including cost of all materials, labour hire charges of machinery loading unloading lead lift transportation etc complete (Data Rate)
Measurements taken on	26-05-2020

		for Drain bottom									
		L/s									
0	30		sqm	1	30.00	0.90		27.00			
30	60		sqm	1	30.00	0.90		27.00			
60	87.50		sqm	1	27.50	0.90		24.75			
		RHS									
0	30		sqm	1	30.00	0.90		27.00			
30	60		sqm	1	30.00	0.90		27.00			
60	90		sqm	1	30.00	0.90		27.00			
90	120		sqm	1	30.00	0.90		27.00			
120	150		sqm	1	30.00	0.90		27.00			
150	165.60		sqm	1	15.60	0.90		14.04			
		LHS									
0	30		sqm	1	30.00	0.90		27.00			
30	60		sqm	1	30.00	0.90		27.00			
60	90		sqm	1	30.00	0.90		27.00			
90	120		sqm	1	30.00	0.90		27.00			
120	150		sqm	1	30.00	0.90		27.00			
150	165.60		sqm	1	15.60	0.90		14.04			
							Total	**376.83**			
							Tender Quantity	**1074.00**			
							Now to be Paid Quantity	**376.83**	**2337.00**	**880651.71**	

14	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.42, I. 9.4) PRED.SR 2011-12
Measurements taken on	

			Each BW	2				2			
							Total	**2.00**			

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

PRAPRASAD CONSULTANTS BANGALORE

PMC Contractor

Assistant Engineer

Assistant exicutive Engineer

						Tender Quantity	**2.00**			
						Now to be Paid Quantity	**2.00**	**1938.46**	**3876.92**	
15	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 36 / I. 9.1 PRED SR 2010-11									
		Vide Total executed Quantity from premeasuremet Page no. 04								
							Now to be Paid Quantity			
		0 to 50 m	Rmtr					100.00		
							Total	**100.00**		
							Tender Quantity	**100.00**		
							Now to be Paid Quantity	**100.00**	315.18	**31518.00**
		50 to 100 m	Rmtr					100.00		
							Total	**100.00**		
							Tender Quantity	**100.00**		
							Now to be Paid Quantity	**100.00**	412.00	**41200.00**
		100 to 150 m	Rmtr					100.00		
							Total	**100.00**		
							Tender Quantity	**100.00**		
							Now to be Paid Quantity	**100.00**	458.35	**45835.00**
		150 to 200 m	Rmtr					100.00		
							Total	**100.00**		
							Tender Quantity	**100.00**		
							Now to be Paid Quantity	**100.00**	484.10	**48410.00**
		200 to 250 m	Rmtr					100.00		
							Total	**100.00**		
							Tender Quantity	**100.00**		
							Now to be Paid Quantity	**100.00**	560.32	**56032.00**
		250 to 300 m	Rmtr					100.00		
							Total	**100.00**		
							Tender Quantity	**100.00**		
							Now to be Paid Quantity	**100.00**	600.49	**60049.00**
16	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) SE PRED Approved Rate									
			Rmtr							
		Vide Total executed Quantity from premeasuremet Page no. 05						**140.00**		
							Total	**140.00**		
							Tender Quantity	**140.00**		
							Now to be Paid Quantity	**140.00**	**1325.00**	**185500.00**
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-c(1) 2.5 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11									
			Mtr							
		Vide Total executed Quantity from premeasuremet Page no. 06						**1080.00**		
							Total	**1080.00**		
							Tender Quantity	**1080.00**		
							Now to be Paid Quantity	**1080.00**	**126.70**	**136836.00**

P.K.P

P.PRASAD CONSTRUCTIONS

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contractor PMC

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Assistant Engineer

Assistant exicutive Engineer

18	Labour Charges for erection as new/repaired submrsibble pumpset along with GI pipe(32/50 mm) cable (new submersible pumpset if required will be supplied by the the deapartment free of cost and released pupset should be handed over to dept including transportation(Each length=6.0 mtr									
		Per Length								
	Vide Total executed Quantity from pre measuremet Page no. 07					**90.00**				
	Total					**90.00**				
	Tender Quantity					**90.00**				
	Now to be Paid Quantity					**90.00**	**88.00**	**7920.00**		
19	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44 It 6.6.6 KPWD electrical SR 2014-15									
Measurements taken on	26-05-2020									
		Each	2				**2**			
	Total					**2.00**				
	Tender Quantity					**2.00**				
	Now to be Paid Quantity					**2.00**	**302.00**	**604.00**		
20	Supplying and fixing LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11									
Measurements taken on	26-05-2020									
		Mtr	2	30.00			**60.00**			
	Total						**60.00**			
	Tender Quantity						**60.00**			
	Now to be Paid Quantity						**60.00**	**140.40**	**8424.00**	
21	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, P No. 69 / I No. Ia In existing trench/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11									
Measurements taken on	26-05-2020									
		Mtr	2	30.00			**60.00**			
	Total						**60.00**			
	Tender Quantity						**60.00**			
	Now to be Paid Quantity						**60.00**	**10.80**	**648.00**	
22	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB 1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11									
		Mtr								
	Vide Total executed Quantity from premeasuremet Page no. 08						**50.00**			
	Total						**50.00**			
	Tender Quantity						**50.00**			
	Now to be Paid Quantity						**50.00**	**85.00**	**4250.00**	
23	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 70/ I No.9-A KPWD Electrical SR 2010-11									
Measurements taken on	26-05-2020									
	40mm dia GI pipe	Mtr	2	4.00			**8.00**			
	Total						**8.00**			
	Tender Quantity						**8.00**			
	Now to be Paid Quantity						**8.00**	**345.00**	**2760.00**	
24	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11									
Measurements taken on	26.05.2020									
	16Sqmm	No.	2				**2.00**			
	Total						**2.00**			
	Tender Quantity						**2.00**			
	Now to be Paid Quantity						**2.00**	**280.00**	**560.00**	

RUDRAPRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor PMC Assistant Engineer Assistant Executive Engineer

25	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, (P No.68, I No. 1) KPWD Electrical SR 2010-11									
Measurements taken on	26-05-2020									
		No	2				2			
	Total						**2.00**			
	Tender Quantity						**2.00**			
	Now to be Paid Quantity						**2.00**	**2727.00**	**5454.00**	
26	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete…. P No. 32/I No 3d KPWD Electrical SR 2010-11									
Measurements taken on										
	100 Amps	No.	2x6				12			
	Total						**12.00**			
	Tender Quantity						**12.00**			
	Now to be Paid Quantity						**12.00**	**180.00**	**2160.00**	
27	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications									
Measurements taken on	26-05-2020									
		No	2				2			
	Total						**2.00**			
	Tender Quantity						**2.00**			
	Now to be Paid Quantity						**2.00**	**1547.00**	**3094.00**	
28	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 P.No. 41, I. No. 38B KPWD Electrical SR 2010-11									
Measurements taken on	26-05-2020									
	16SWG	Sq.Cm	2x2	120.00	60.00		28800.00			
			2	360.00	25.00		18000.00			
	Total						**46800.00**			
	Tender Quantity						**46800.00**			
	Now to be Paid Quantity						**46800.00**	**0.33**	**15444.00**	
29	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2011-12									
		Cum								
	Vide Total executed Quantity from premeasuremet Page no. 09						**675.36**			
	Total						**675.36**			
	Tender Quantity						**675.00**			
	Quantity limited						**675.00**	**188.00**	**126900.00**	
30	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line. level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.75MM 10 KSC Pvc Pipe Page No.14 item No.3.4.2 PRED SR 2011-12.									
		Cum								
	Vide Total executed Quantity from premeasuremet Page no. 10						**1500.80**			
	Total						**1500.80**			
	Tender Quantity						**1500.00**			
	Quantity limited						**1500.00**	**123.00**	**184500.00**	

RAJDARAPRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contractor PMC

Assistant Engineer

Assistant executive Engineer

	Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering consolidation in layers of 15 cm thick including disposing of the surplus earth with a lead of 200 meters Item No. 1.6 Page No.3 PRED SR 2011-12									
		Cum								
	Vide Total executed Quantity from premeasuremet Page no. 11					**675.36**				
	Total					**675.36**				
	Tender Quantity					**675.00**				
	Quantity limited					**675.00**	**61.00**	**41175.00**		
32	**Code No.: 3008 Providing 250mm dia PVC Pipe 10kg/cm complete as per specifications and directions of engineer in charge of**									
		Rmtr								
	Vide Total executed Quantity from premeasuremet Page no. 12					**36.00**				
	Total					**36.00**				
	Tender Quantity					**36.00**				
	Now to be Paid Quantity					**36.00**	**2203.39**	**79322.04**		
33	Providing and fixing Borewell Cap and Clamp Set Page No. XLVII, SI No. 17 PWD SR 2018-19									
Measurements taken on	26-05-2020									
		Set	2			2				
	Tender Quantity					**2.00**				
	Now to be Paid Quantity					**2.00**	**1800.00**	**3600.00**		
34	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps PWD SR 2018-19 P. XLI Item No. 35 including of all taxes									
Measurements taken on	26.05.2020									
		No	2			2				
	Tender Quantity					**2.00**				
	Now to be Paid Quantity					**2.00**	56414.00	**112828.00**		
35	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete									
Measurements taken on	26-05-2020									
		m	2	260.00		**520**				
	Total					**520.00**				
	Tender Quantity					**520.00**				
	Now to be Paid Quantity					**520.00**	**415.00**	**215800.00**		
36	Providing Collar 50 mm complete as per specifications and directions of engineer in charge of the work									
Measurements taken on	26-05-2020									
		No	**2X45**			**90.00**				
	Total					**90.00**				
	Tender Quantity					**90.00**				
	Now to be Paid Quantity					**90.00**	**180.00**	**16200.00**		
37	Providing and fixing 50mm nominal bore gun metal non-return complete as per specifications and directions of engineer in charge of the work									
Measurements taken on	26.05.20									
		Nos	2			**2**				
	Total					**2.00**				
	Tender Quantity					**2.00**				
	Now to be Paid Quantity					**2.00**	**1800.00**	**3600.00**		

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor

PMC

Assistant Engineer

Assistant exicutive Engineer

	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 84 / I. No. 13.81.3 PWD SR 2010-11									
Measurements taken on	26.05.2020									
	50mm dia	Each	2				2			
						Total	**2.00**			
						Tender Quantity	**2.00**			
						Now to be Paid Quantity	**2.00**	**222.60**	**445.20**	
39	Providing outdoor panel upto 15.00 HP complete as per specifications and directions of engineer in charge of the work									
Measurements taken on	26.05.2020									
		No.	2				2			
						Total	**2.00**			
						Tender Quantity	**2.00**			
						Now to be Paid Quantity	**2.00**	**15500.00**	**31000.00**	
40	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 (P.81/I.13.37 PWD SR - 2010-11)									
Measurements taken on	26.05.2020									
		Each	15				15			
						Total	**15.00**			
						Tender Quantity	**15.00**			
						Now to be Paid Quantity	**15.00**	**2229.18**	**33437.70**	
						Total of PWD SR 2018-19 Items			**1876689.68**	
						Total of Other Items			**2390034.57**	
BESCOM Deposits Charges		L/s								
Appliation Charges							2	100.00	200.00	
BESCOM Deposits Charges							2	13710.00	27420.00	
Meter Charges							2	1730.00	3460.00	
						Total			**4297804.25**	
						Add 12% GST for Only PWD SR 2018-19 items			**225202.76**	
						For 3% KRIDL Charges			**128934.00**	
						Add 1% Labour Cess			**42978.00**	
						Grand Total			**4694919.02**	

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contractor

PMC

Assistant Engineer

Assistant executive Engineer